

**DOE READING ROOM
DOCUMENT TO BE RELEASED**

T070349

1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403	2. Expected Release Date: May 15, 1995				
3. Document Type: <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 40%; vertical-align: top;"> <input checked="" type="checkbox"/> Letter <input type="checkbox"/> Memorandum <input type="checkbox"/> Report <input type="checkbox"/> Publication <input type="checkbox"/> Other (Specify) </td> <td style="width: 60%; vertical-align: top;"> a. If letter or memo: To: W. P. Gammill, Chief, HP Branch From: C. A. Hawley, Chief, Environmental Sec. Subject: PROPOSAL FORM CERT III RELEASE, 11-30-64 </td> </tr> <tr> <td colspan="2" style="padding-top: 10px;"> b. If report: Title: </td> </tr> </table>		<input checked="" type="checkbox"/> Letter <input type="checkbox"/> Memorandum <input type="checkbox"/> Report <input type="checkbox"/> Publication <input type="checkbox"/> Other (Specify)	a. If letter or memo: To: W. P. Gammill, Chief, HP Branch From: C. A. Hawley, Chief, Environmental Sec. Subject: PROPOSAL FORM CERT III RELEASE, 11-30-64	b. If report: Title:	
<input checked="" type="checkbox"/> Letter <input type="checkbox"/> Memorandum <input type="checkbox"/> Report <input type="checkbox"/> Publication <input type="checkbox"/> Other (Specify)	a. If letter or memo: To: W. P. Gammill, Chief, HP Branch From: C. A. Hawley, Chief, Environmental Sec. Subject: PROPOSAL FORM CERT III RELEASE, 11-30-64				
b. If report: Title:					
4. Document Date: NOV 30, 1964	c. If publication: Name: Volume: Issue:				
5. Summary (2-3 lines indicating the major subject(s) of the document): Proposed I-131 release to be known as CERT-III for the purpose of obtaining "meterological aspects of I-131 deposition" and "to calibrate the response of radiation telemetry equipment".					
6. Name and telephone number of person completing form: Burton R. Baldwin (208) 525-0203	7. Organization: Lockheed Idaho Technologies Co.	8. Date: March 31, 1995			

☐ Check here if a copy of the document is being sent to Headquarters.

HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	CONTROLLED ENVIRONMENTAL RADIOIODINE TESTS (CERT)
BOX NUMBER	INEL BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673 ACCESSION NO. 430 78 0073
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT THE FEDERAL RECORDS CENTER (CRC) IN SEATTLE, WA. INEL RECORD STORAGE RECEIPT NUMBER IS 2506 FOLDER: BRANCH READING FILE, NOVEMBER 1964
FILE TITLE	LETTER TO W. P. GAMMILL, FROM C. A. HAWLEY, SUBJECT: PROPOSAL FOR CERT III RELEASE, DATED 11-30-64
TOTAL PAGES	
BATE NUMBER RANGE	
DOCUMENT NUMBER RANGE	

HEI FORM DOCUMENT NO.: T070043

DOCUMENT NO.: T070349

DOCUMENT TITLE: LETTER TO W. P. GAMMILL, FROM C. A. HAWLEY.

SUBJECT: PROPOSAL FOR CERT III RELEASE, DATED 11-30-64

CROSS REFERENCES:

ITEMS OF INTEREST:

W. P. Gammall, Chief
Health Physics Branch

November 30, 1964

Clyde A. Hawley, Chief
Environmental Section

REPOSITORY INEL

COLLECTION CERT

PROPOSAL FOR CERT III RELEASE

#22305 FRC #430 780073

BOX No. File: Branch Reading File Nov-1964

HSHP:CAH & USWB:EM

FOLDER Proposal for Cert III Release

Objective #1: To obtain information on the meteorological aspects of I-131 deposition.

Background: From the previous CERT tests carbon plates have proved to be a reliable standard deposition media from which the meteorological influence on deposition can be obtained. Grass is not too suitable for this type of study mainly because variations in height and density also change deposition rates, thus it is more difficult to isolate meteorological influences.

Scope: The release will be made at the Experimental Dairy Farm. One or two releases of 200 millicuries from each of two generators in the same manner as the previous tests is required to keep sampling data above threshold. Light southwesterly winds under neutral to slightly unstable conditions are desired during the release. All of the high-volume air samplers on the 150 and 250 meter arcs (arcs B and C) should be activated. This will involve the use of 28 samplers, each having a prefilter and a carbon cartridge. Also deposition will be measured on carbon plates at each sampling location. Meteorological instruments will be installed on the grid to measure in detail, the wind velocity profile close to the ground.

The releases should be completed before December 5 to utilize the I-131 that has already been purchased.

Objective #2: To use the I-131 on hand as a source of known strength and concentration in the atmosphere for the purpose of calibrating the response of radiation telemetry equipment.

Background: Although the telemetry stations are calibrated routinely with sealed sources, the response to known quantities of gaseous or airborne activities has never been measured.

Scope: The system described in objective #1, above, will be used. Only the placement of two telemetry trailers and their power supplies will be required in addition to the requirements of objective #1.

Manpower requirements

<u>Function</u>	<u>Unit</u>	<u>Man-days</u>
1. Grid preparation	H. P. Branch	4
2. I-131 release	Analytical- Chemistry Branch	1
3. Sample collection	H. P. Branch	1
4. Sample analysis	Analytical- Chemistry Branch	2
5. Data analysis	USWB	5
	H. P. Branch	4
	Total	17

The Meteorologist in Charge and the Branch Chief, Analytical Chemistry Branch, have agreed to furnish the above-listed manpower.

Cost Requirements

Since the I-131 has already been purchased for a test which was not conducted due to weather, and all necessary equipment is on hand, the only costs incurred for the test will be the personnel costs. No overtime is anticipated.

HSHP
CAHawley:dc

11-30.